MIAMI-DADE COUNTY, FLORIDA METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563 (305) 375-2901 FAX (305) 375-2908

www.miamidade.gov

NOTICE OF ACCEPTANCE (NOA)

Eastern Metal Supply, Inc. 4268 Westroads Dr. West Palm Beach, Florida 33407

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.030" Galvanized Steel Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 09-013, titled "0.030" Thick Galvanized Bertha Steel Storm Panel", sheets 1 through 9 of 9, and 1A of 9, prepared by Tilteco, Inc., dated 02/04/2009, last revision #1 dated 02/04/2009 signed and sealed by Walter A. Tillit Jr., P.E. on 02/18/2009, bearing Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 05-0926.02 and consists of this page 1, evidence submitted pages E-1, E-2 and E-3 as well as approval document mentioned above.

Heling A. Melor 07/22/2009

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

NOA No. 09-0330.04 Expiration Date: 06/07/2014 Approval Date: 07/22/2009

provai Date: 0//22/200

Page 1

Eastern Metal Supply, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0919.10

A. DRAWINGS

1. Drawing No. 00-252, titled "24 Gage Galvanized Bertha Steel Storm Panels", prepared by Tilteco, Inc., dated July 10, 2000, last revision #1 dated April 3, 2001, sheets 1 through 9 of 9, signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Galvanized Steel Storm Panels, prepared by American Test Lab of South Florida, Report No. ATL 0425.01-00, dated August 22, 2000, signed and sealed by Henry Hattem, P.E. and William R. Mehner, P.E.

C. CALCULATIONS

1. Storm panel shutter Calculations, sheets 1 through 78 by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E., dated 09/11/2000.

D. MATERIAL CERTIFICATIONS

- Mill Certified Inspection Report, dated 05/97, for Hot Dipped Galvanized coating G-60 Steel, ASTM A653 Grade 40 (ASTM 446GR-C) by Robert O'Neil of R & R Metals, Inc., with chemical composition and physical properties.
- 2. Tensile Test Reports from Hurricane Engineering & Testing Inc., Job No. HETI-97-T48 dated July 17, 1997 for 20 ga. Galvanized Steel, tested per ASTM E8-93, signed and sealed by Hector M. Medina, P.E.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0809.04

A. DRAWINGS

1. Drawing No. 02-446, titled "24 gage Galvanized Bertha Steel Storm Panel", sheets 1 through 9 of 9, prepared by Tilteco, Inc., dated September 05, 2002, signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. MATERIAL CERTIFICATIONS

1. None.

Melmy A. Makar, P.E., M.S. Senior Product Control Examiner

> NOA No. 09-0330.04 Expiration Date: 06/07/2014

Approval Date: 07/22/2009

Eastern Metal Supply, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0517.01

A. DRAWINGS

1. Drawing No. 02-446, titled "24 gage Galvanized Bertha Steel Storm Panel", sheets 1 through 9 of 9, prepared by Tilteco, Inc., dated September 05, 2002, signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0926.02

A. DRAWINGS

1. Drawing No. 05-073, titled "0.030" Thick Galvanized Bertha Steel Storm Panel", sheets 1 through 9 of 9, and 1A of 9, prepared by Tilteco, Inc., dated 04/25/2005, last revision #1 dated 04/25/2005 signed and sealed by Walter A. Tillit Jr., P.E. on 09/15/2005

B. TESTS

1. Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of Galvanized Steel Storm Panels, prepared by American Test Lab of South Florida, Report No. ATLSF 0616.01-05, dated September 15, 2005, signed and sealed by William R. Mehner, P.E.

C. CALCULATIONS

1. Storm panel shutter Calculations, sheets 1 through 91 by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E. on 09/13/2005.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. Tensile Test Report from QC Metallurgical, Inc., Job No. 51M-926, dated September 20, 2005, tested per ASTM E8-93, signed and sealed by Frank Grate, P.E.

Helmy A. Makar, P.E., M.S. Senior Product Control Examiner

NOA No. 09-0330.04 Expiration Date: 06/07/2014

Approval Date: 07/22/2009

Eastern Metal Supply, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 09-013, titled "0.030" Thick Galvanized Bertha Steel Storm Panel", sheets 1 through 9 of 9, and 1A of 9, prepared by Tilteco, Inc., dated 02/04/2009, last revision #1 dated 02/04/2009 signed and sealed by Walter A. Tillit Jr., P.E. on 02/18/2009.

B. TESTS

1. None.

C. CALCULATIONS

1. Storm panel shutter Calculations, sheets 1 through 91 by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E. on 02/18/2009.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

Mimy A. Makar, P.E., M.S. Senior Product Control Examiner NOA No. 09-0330.04

Expiration Date: 06/07/2014 Approval Date: 07/22/2009

GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE. STORM PANEL MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER

IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.A.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN

STORM PANEL'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS # 2425.01-00 AND # 0616.01-05, AS PROTOCOLS TAS-201, TAS-202 AND

- 2. ALL STEEL SHEET METAL PANELS SHALL HAVE STRUCTURAL QUALITY ASTM A-653 SQ, GRADE 40, WITH G-90 GALVANIZED STEEL
- 3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY & TEMPER UNLESS OTHERWISE NOTED.
- 4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 W/ 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH.
- 5. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL, WITH 36 ksi MINIMUM YIELD STRENGTH.
- 6. ANCHORS TO WALL SHALL BE AS FOLLOWS:
 - (A) TO EXISTING POURED CONCRETE MINIMUM EDGE DISTANCE (E.D.), AS PER SHEETS 5 THRU 7:
 - 1/4" TAPCONS & MAXI-SET TAPCONS ANCHORS AS MANUFACTURED BY I.T.W./BUILDEX, INC (Min. f'c=3192 psi)
 - 1/4" CRETE-FLEX SS4 ANCHORS AS MANUFACTURED BY ELCO FASTENING SYSTEMS, LLC (Min. f'c=3350 psi) - 1/4" x 7/8" CALK-IN ANCHORS AS MANUFACTURED BY POWER FASTENERS, INC. (Min. f'c=3000 psi)
 - 1/4" "PANELMATE FEMALE ID" OR 1/4" "PANELMATE PLUS" ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTION
 - 1/4" x 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY CO.

- A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF TAPCON ANCHOR OR CRETE-FLEX SS4 IS 1 3/4", AND 2" FOR
- A.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM
- A.3) MINIMUM EMBEDMENT OF 1/4" x 3/4" ALL POINTS SOLID-SET ANCHORS SHALL BE 7/8" INTO POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- A.4) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS, ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1), A.2) & A.3) ABOVE.
- (B) TO EXISTING CONCRETE BLOCK ASTM C-90:
- 1/4" TAPCONS & MAXI-SET TAPCONS ANCHORS AS MANUFACTURED BY I.T.W./BUILDEX, INC.
- 1/4" CRETE-FLEX SS4 ANCHORS AS MANUFACTURED BY ELCO FASTENING SYSTEMS, LLC.
- 1/4" x 7/8" CALK-IN ANCHORS AS MANUFACTURED BY POWER FASTENERS, INC. (Min. f'm=1500 psi)
- 1/4" "PANELMATE FEMALE ID" OR 1/4" "PANELMATE PLUS" ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTION
- 1/4" x 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY CO.

NOTES:

- B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS, "PANELMATE FEMALE ID" ANCHORS, "PANELMATE PLUS" ANCHORS AND CRETE-FLEX SS4 ANCHORS, INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- B.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.3) MINIMUM EMBEDMENT OF 1/4" x 3/4" ALL POINTS SOLID-SET ANCHORS SHALL BE 7/8" INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.4) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON

- (C) TO EXISTING WOOD (MIN. SPECIFIC GRAVITY, G=0.55 MIN.): MINIMUM EDGE DISTANCE (E.D.) AS PER SHEETS 8 AND 9.
 - 1/4"ø "PANEMALTE PLUS" AND "PANELMATE FEMALE ID" ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

- C.1) MINIMUM THREADED PENETRATION INTO WOOD OF "PANEMALTE PLUS" ANCHORS AND female PANELMATES SHALL BE 1 7/8".
- C.2) MINIMUM THREADED PENETRATION OF LAG SCREWS, INTO THE WOOD FRAME UNIT SHALL BE 1 1/2" NO THREADED PENETRATION INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED THREADED PENETRATION (EXCEPT AS NOTED).
- C.3) IN CASE THAT PRECAST STONE, OR PRECAST CONCRETE PANELS, STUCCO OR WOOD BANS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN C.1) AND C.2).
- (D) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S
- 7. PANELS MAY BE ALSO INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTIONS 1 THRU 8 (SHEETS 2 & 3 OF 9) AND SECTIONS A AND B (SHEETS 8 AND 9) EXCEPT THAT HEADERS ②, ③ & ④ SHALL NOT BE USED.
- 8. AT LEAST ONE WARNING LABEL PER OPENING SHALL BE PLACED IN A CONSPICUOUS LOCATION ON ANY OF THE COMPONENTS OF THE STORM PANELS SYSTEM ADVISING THE HOME OWNER OR TENANT THAT STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL REINFORCING BOLTS ARE PROPERLY INSTALLED WHEN REQUIRED.
- 9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME
- 10. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.
- 11. STORM PANEL INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
- 12. (a) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.
 - (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.A.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
 - (c) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.
 - (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE
 - (e) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT
- 13. SHUTTER MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY AND VISIBLE LOCATION AT PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS: EASTERN METAL SUPPLY, INC. WEST PALM BEACH, FL.

MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

MIAMI-DADE COUNTY

PRODUCT REVISED as complying with the Florida **Buiding Code** Acceptance No 09-0330. 04

Expiration Date 06/07/201/ By the Luy H. Me I. Miami Dade Product Contro

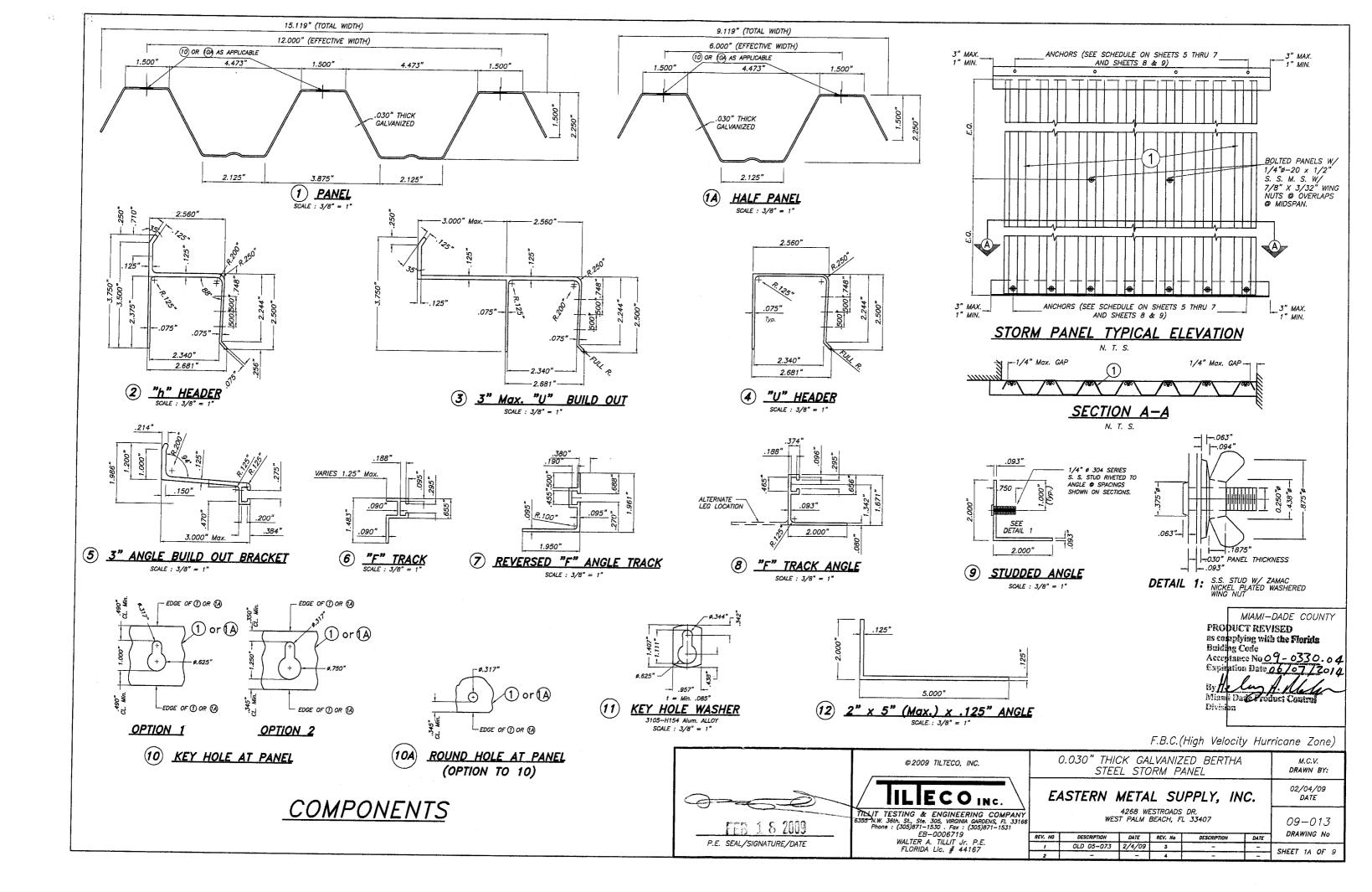
Division

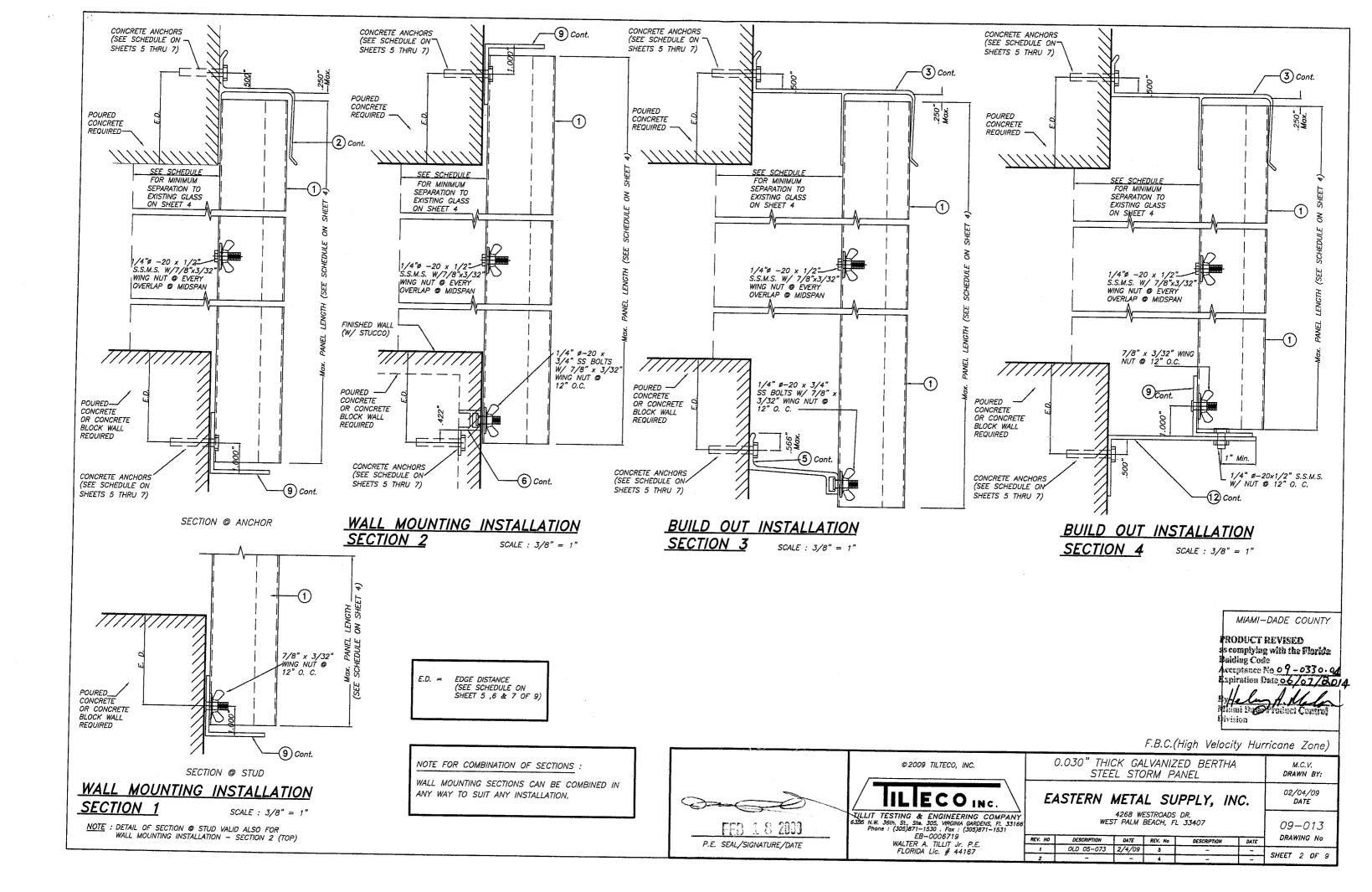
F.B.C.(High Velocity Hurricane Zone)

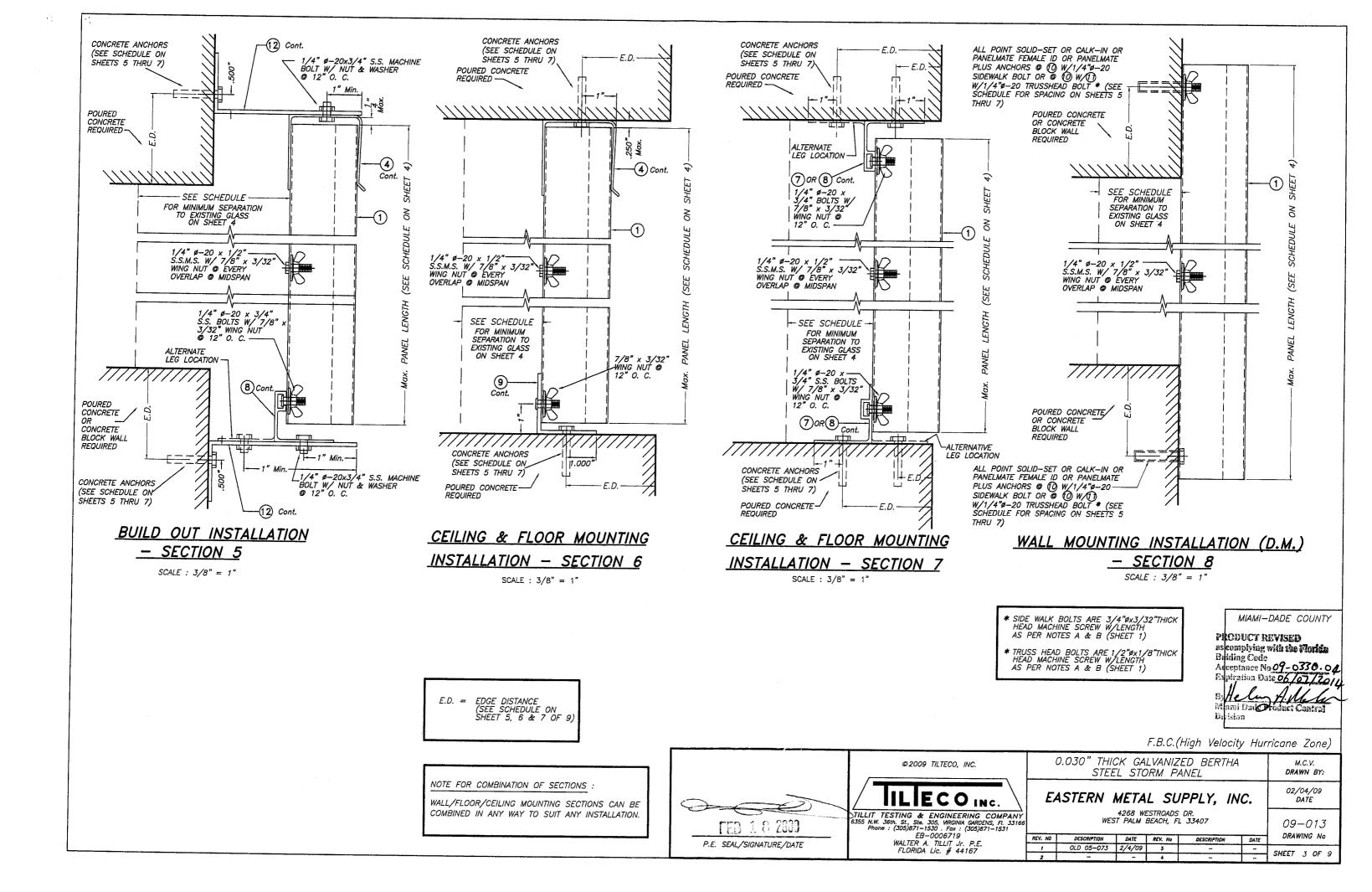


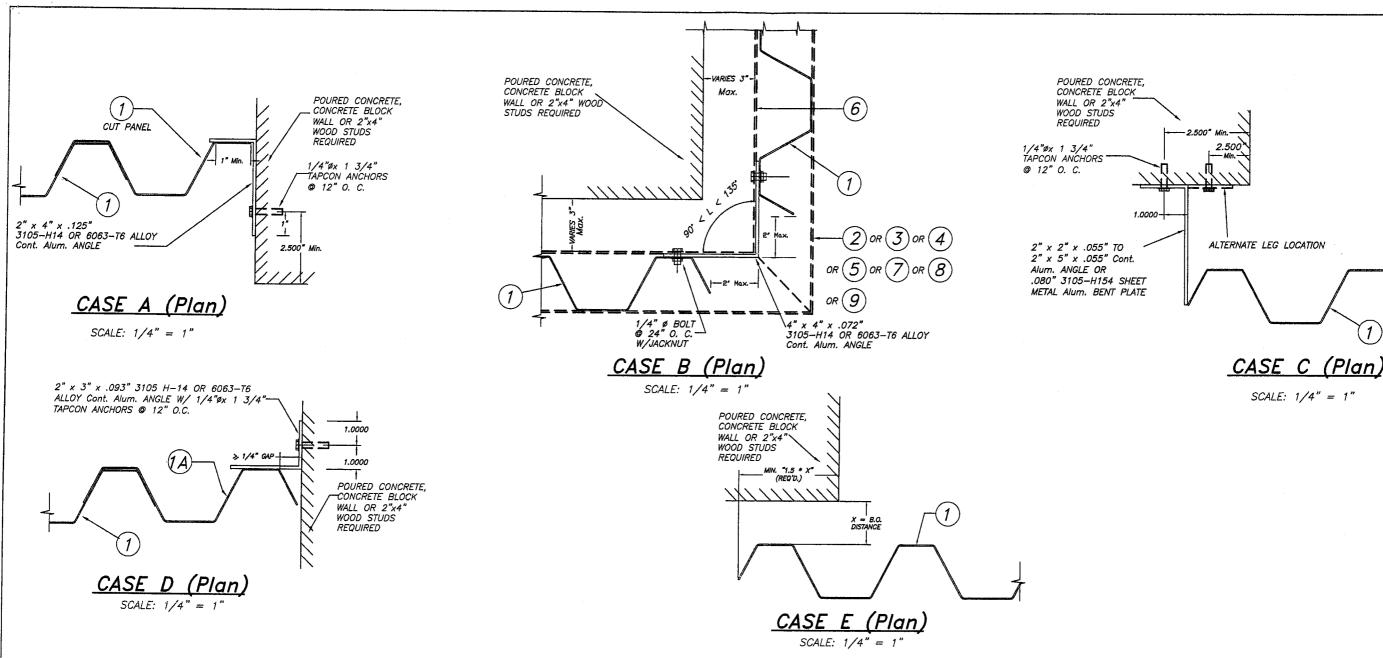
@ 2009 TILTECO, INC. ILIECO INC. TILLIT TESTING & ENGINEERING COMPANY EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167

0.030" THICK GALVANIZED BERTHA STEEL STORM PANEL DRAWN BY: EASTERN METAL SUPPLY, INC. 02/04/09 4268 WESTROADS DR. WEST PALM BEACH, FL 33407 09-013 REV. NO DESCRIPTION DRAWING No DATE REY. No DESCRIPTION DATE OLD 05-073 2/4/09 3 SHEET 1 OF 9









END CLOSURES DETAILS

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM PANEL LENGTH "L" SCHEDULE

MAXIMUM DESIGN PRESSURE RATING W (p.s.f.)	Max. PANEL LENGTH L (ft.) (SEE SECTIONS)	MINIMUM SEPARATION TO GLASS	APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM
+66.0, -76.0	7'-6" OR LESS	3"	1,2,3,4,5 & 8
+60.0, -70.0	>7'-6" TO 8'-6"	3"	1,2,3,4,5 & 8
+66.0, -76.0	7'-6" OR LESS	3 3/4"	6 & 7
+60.0, -70.0	>7'-6" TO 8'-6"	3 3/4"	6 & 7

MIAMI-DADE COUNTY

DRAWN BY:

02/04/09 DATE

09-013

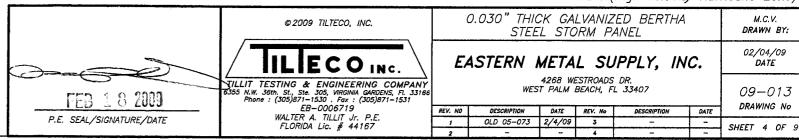
DRAWING No

PRODUCT REVISED as complying with the Florida Buiding Code

Acceptance No 09 - 0330 · 04 Expiration Date 06/07/2014

Miami Dade Zoduci Control

F.B.C.(High Velocity Hurricane Zone)



MANUARA				M	AXIMUM ANC	HORS SPACIN	IG FOR E. D.	= 3 1/2"	#				T	T
MAXIMUM DESIGN LOAD	SN LOAD 1.1.W. BUILDE			IING SYSTEMS		CO CONSTRU			POWER FA	ASTENERS	ALL I	POINTS	APPLICABLE TO SECTIONS # &	MAXIMUM PANE
W (p.s.f.)		TO MASONRY		TO MASONRY		TO MASONRY		TO MASONRY		LK-IN		D-SET	ANY COMBINATION OF THEM	LENGTH "L" (f
	12"	N/A	12"	N/A	12"	N/A	12"	1	12"	TO MASONRY	TO CONCRETE	<u> </u>	 	
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	12"	N/A	12"		12"		 	11"	12"	11"	12"	12"	1 (BOTTOM)	-
	12"	10"		N/A		N/A	12"	N/A	12"	N/A	12"	12"	2 (TOP)	-
			12"	8"	12"	12*	12"	11"	12"	11"	N/A	N/A	2 (BOTTOM)	-
	12" 12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	3 (TOP)	1
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	12"	9"	12"	7*	12"	12"	12"	10"	12"	10"	N/A	N/A	5 (ВОТТОМ)	
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ļ	12"	N/A	10"	N/A	12"	N/A	N/A	N/A	11"	N/A	N/A	N/A	7 (ТОР/ВОТТОМ)]
	N/A	N/A	N/A	N/A	12"	12"	12"	12"	12"	6"	12"	12"	8 (ТОР/ВОТТОМ)	
1	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	1 (TOP)	
	12"	8"	12"	7"	12"	12"	12*	10"	12"	9 1/2"	12"	12"	1 (ВОТТОМ)	1
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	12"	2 (TOP)	
	12"	8"	12"	7*	12"	12"	12"	10"	12"	9 1/2"	N/A	N/A	2 (ВОТТОМ)	1
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Ĺ	12"	8"	12"	7"	12"	12*	12"	10"	12"	9 1/2"	N/A	N/A	3 (ВОТТОМ)	
66.0, -72.0	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	4 (TOP)	6'-0" OR LES
L	12"	8"	12"	7"	12"	12"	12"	10"	12"	9 1/2"	N/A	N/A	4 (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	5 (TOP)	
	12"	6"	12"	5"	12"	10"	12"	7"	12"	7"	N/A	N/A	5 (BOTTOM)	
Ţ.	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	12"	N/A	N/A	N/A	6 (TOP)	
Γ	12"	N/A	10"	N/A	12"	N/A	N/A	N/A	11"	N/A	N/A	N/A	6 (BOTTOM)	
	10"	N/A	8 1/2"	N/A	11"	N/A	N/A	N/A	9"	N/A	N/A	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	12"	12"	12"	6"	12"	6"	12"	12"	8 (TOP/BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	1 (TOP)	
ľ	12"	8"	12"	6 1/2"	12"	12"	12"	8*	12"	9"	12"	12"	1 (BOTTOM)	
F	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	12"	2 (TOP)	
F	12"	8"	12"	6 1/2"	12"	12"	12"	9*	12"	9"	N/A	N/A	2 (BOTTOM)	
F	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	3 (TOP)	
T	12"	8"	12"	6 1/2"	12"	12"	12"	9"	12"	9"	N/A	N/A	3 (BOTTOM)	
50.0 , –6 1.5	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A		>6'-0" TO 7'-
F	12"	8"	12"	6 1/2"	12"	12"	12"	9"	12"	9"	N/A	N/A	4 (TOP) 4 (BOTTOM)	-0-0 10/-
F	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"					
F	12"		10 1/2"	4"	12"	9"	12"	6"	12"	N/A 6"	N/A	N/A	5 (TOP)	
F	12"	N/A	12"	N/A	12'	N/A	N/A		12"		N/A	N/A	5 (BOTTOM)	
	11"		9 1/2"	N/A	12'			N/A		N/A	N/A	N/A	6 (TOP)	
F	9"		11 1/2"	N/A	10 1/2'	N/A	N/A	N/A	10 1/2"	N/A	N/A	N/A	6 (BOTTOM)	
H	N/A	N/A				N/A	N/A	N/A	9 1/2"	N/A	N/A	N/A	7 (TOP/BOTTOM)	
	''/'	′7/^	N/A	N/A	12"	12"	12"	6"	12"	6"	12"	12"	8 (ТОР/ВОТТОМ)	

** MINIMUM ANCHOR SPACING LISTED BELOW ARE AS PER MIN. EDGE DISTANCE SCHEDULE. FOR E.D. LESS SCHEDULE INDICATED, REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE AT ANCHORS LEGEND.

			FA	CTOR		
ACTUAL E. D.	TAPCON	CRETE-FLEX SS4 1	FEMALE PANELMATE	PANELMATE PLUS	CALK-IN	SOLID-SET
·	Min. spacing=3"	Min. spacing=3"	Min. spacing=3"	Min. spacing=3"	Min. spacing=2 1/2"	Min. spacing=3".
1 1/2"	. <i>35</i>	.50	_	_	_	
2 1/2"	_	_	_	_	0.50	.63
3"	1.00	1.00	_	1.00	0.63	_
3 1/2"	_	-	1.00	~-	1.00	1.00

▲ REDUCTION FACTOR APPLICABLE FOR POURED CONCRETE ONLY.

E.D. = EDGE DISTANCE

** MINIMUM ANCHORS E.D. SCHEDULE								
ANCHORS TYPE	MINIMUM EDGE DISTANCE (E.D.)							
ANOTONS THE	CONCRETE	C. BLOCK						
1/4"ø TAPCON	3"	3"						
1/4"ø PANELMATE FEMALE ID	3"	3 1/2"						
1/4"ø PANELMATE PLUS	3"	3 1/2"						
1/4"ø CALK-IN	3"	4"						
1/4"ø SOLID-SET	3 1/2"	3 1/2"						

MIAMI-DADE COUNTY

Product revised as complying with the Florida

Buiding Code

Acceptance No 09 - 0330.04 Expiration Date 06 Jo 7 12014

F.B.C.(High Velocity Hurricane Zone)

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES *

> * SEE NOTES ON SHEET 8 & 9 OF 9 FOR ANCHOR TYPES & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.



P.E. SEAL/SIGNATURE/DATE

@ 2009 TILTECO, INC. ILLECO INC.

TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FI. 33161 Phone: (305)871-1530 . Fox: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167

	. (LVANIZ DRM PA	'ED BERTHA ANEL		M.C.V. DRAWN BY:
\	EA	ASTERN I	META	L SU	IPPLY, IN	c.	02/04/09 DATE
_\ √Y 166		WES		ESTROADS BEACH, F			09-013
	REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DRAWING No
	1	OLD 05-073	2/4/09	3	-	-	SHEET 5 OF 9
	,			1	_		SHEEL S OF 9

MAXIMUM	1711	DIWARY	5.00 5.00		MAXIMUM ANC				**					
DESIGN LOAD W (p.s.f.)		BUILDEX I-SET TAPCONS		NING SYSTEMS FLEX SS4	+	CO CONSTRU			POWER FA		ALL	POINTS	APPLICABLE TO SECTIONS # &	MAXIMUM PANE
w (p.s.t.)		TO MASONRY			TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		TO MASONRY		ID-SET	ANY COMBINATION	N LENGTH "L" (#
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A		TO MASONRY		
	12"	6"	12"	5 1/2"	12"	11"	12"	8"	12"	7 1/2"	N/A	N/A	1 (TOP)	4
	12"	N/A	12"	N/A	12"	N/A	12"	<u> </u>	12"	-	12"	12"	1 (BOTTOM)	-
	12"	6"	12"	5 1/2"	12"	11"	12"	N/A	 	N/A	12"	12"	2 (TOP)	_
	12"	N/A	12"	N/A	12"	N/A	12"	8"	12"	7 1/2"	N/A	N/A	2 (ВОТТОМ)	-
	12"	6"	12"	5 1/2"	12"	11"	12"	N/A	12"	N/A	N/A	N/A	3 (TOP)	4
+66.0, -72.0	12"	N/A	12"	N/A	12"		12"	8"	12"	7 1/2"	N/A	N/A	3 (ВОТТОМ)	4
	12"	6"	12"	5 1/2"	12"	N/A 11"		N/A	12"	N/A	N/A	N/A	4 (TOP)	>6'-0" TO 7'-
	12"	N/A	12"	N/A	12"		12"	8"	12"	7 1/2"	N/A	N/A	4 (BOTTOM)	4
	11"	4"	8*	3"	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	5 (TOP)	
	12"	N/A	12"			6"	12"	4"	11"	4 1/2"	N/A	N/A	5 (BOTTOM)	1
	9"	N/A	8"	N/A	12"	N/A	N/A	N/A	11"	N/A	N/A	N/A	6 (TOP)	1
i	8"	N/A N/A	10"	N/A	10"	N/A	N/A	N/A	8"	N/A	N/A	N/A	6 (ВОТТОМ)	1
	N/A	N/A	N/A	N/A	9"	N/A	N/A	N/A	7"	N/A	N/A	N/A	7 (ТОР/ВОТТОМ)	
	12"			N/A	12"	12"	12"	6"	12"	6"	12"	12"	8 (ТОР/ВОТТОМ)	
}	12"	N/A 7"	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	1 (TOP)	1
ŀ			12"	5 1/2"	12"	12"	12"	8"	12"	8"	12"	12"	1 (ВОТТОМ)	
ŀ	12"	N/A 7"	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	12"	2 (TOP)	
ł			12"	5 1/2"	12"	12"	12"	8"	12"	8"	N/A	N/A	2 (ВОТТОМ)	
	12"	N/A	12*	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	3 (TOP)	
	12"	7"	12"	5 1/2"	12"	12"	12"	8*	12"	8"	N/A	N/A	3 (ВОТТОМ)]
60.0, -61.5	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	4 (TOP)	>7' - 6" TO 8'-8
-	12"	7*	12"	5 1/2"	12"	12"	12"	8"	12"	8"	N/A	N/A	4 (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	5 (TOP)	
-	12"	4"	8 1/2"	3"	12"	7"	12"	4"	12"	4 1/2"	N/A	N/A	5 (ВОТТОМ)	
-	9"	N/A	12"	N/A	12"	N/A	N/A	N/A	11"	N/A	N/A	N/A	6 (TOP)	
	10 1/2"	N/A	8 1/2"	N/A	10 1/2"	N/A	N/A	N/A	9"	N/A	N/A	N/A	6 (ВОТТОМ)	
-	8"	N/A	10 1/2"	N/A	9"	N/A	N/A	N/A	7"	N/A	N/A	N/A	7 (ТОР/ВОТТОМ)	
	N/A	N/A	N/A	N/A	12"	12*	12"	6*	12"	6"	12"	12"	8 (ТОР/ВОТТОМ)	
<u> </u>	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	1 (TOP)	
-	12"	6"	12"	4 1/2"	12"	10"	12"	7"	12"	6 1/2"	12"	12"	1 (ВОТТОМ)	
-	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	12"	2 (TOP)	
<u> </u>	12"	6"	12"	4 1/2"	12"	10"	12"	7"	12*	6 1/2"	N/A	N/A	2 (ВОТТОМ)	
<u> </u>	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	3 (TOP)	
_	12"	6"	12"	4 1/2"	12"	10"	12"	7"	12"	6 1/2	N/A	N/A	3 (ВОТТОМ)	
6.0, -72.0	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	4 (TOP)	>7'-6" TO 8'-6
	12"	6"	12"	4 1/2"	12"	10"	12"	7"	12"	6 1/2"	N/A	N/A	4 (ВОТТОМ)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	5 (TOP)	
L	9"	3"	6*	N/A	11"	5"	11"	3"	9"	3 1/2"	N/A	N/A	5 (ВОТТОМ)	
_	11"	N/A	11"	N/A	11 1/2"	N/A	N/A	N/A	10"	N/A	N/A	N/A	6 (TOP)	
<u>_</u>	8*	N/A	7"	N/A	9"	N/A	N/A	N/A	7"	N/A	N/A	N/A	6 (ВОТТОМ)	
	7"	N/A	6 1/2"	N/A	7 1/2"	N/A	N/A	N/A	6"	N/A	N/A		7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	12"	6"	12"	6"	12"	6"	12"		в (ТОР/ВОТТОМ)	

** MINIMUM ANCHOR SPACINGS LISTED BELOW ARE AS PER MIN. EDGE DISTANCE SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE, REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE AT ANCHORS LEGEND.

			FA	CTOR	707 <u></u>	
ACTUAL E. D.	TAPCON	CRETE-FLEX SS4 4	FEMALE PANELMATE	PANELMATE PLUS	CALK-IN	SOLID-SET
	Min. spacing=3"	Min. spacing=3"	Min. spacing=3"	Min. spacing=3"	Min. spacing=2 1/2"	Min. spacing=3"
1 1/2"	.35	.50	· -	_	_	
2 1/2"	_	-		_	0.50	.63
3"	1.00	1.00		1.00	0.63	-
3 1/2"	_	-	1.00	-	1.00	1.00

A REDUCTION FACTOR APPLICABLE FOR POURED CONCRETE ONLY.

E.D. = EDGE DISTANCE

** MINIMUM ANCH	HORS E.D.	SCHEDULE
ANCHORS TYPE	MINIMUN DISTANC	1 EDGE E (E.D.)
78.10,70,10 777 2	CONCRETE	C. BLOCK
1/4"ø TAPCON	3"	3"
1/4"ø PANELMATE FEMALE ID	3"	3 1/2"
1/4"ø PANELMATE PLUS	3"	3 1/2"
1/4"ø CALK-IN	3"	4"
1/4"ø SOLID-SET	3 1/2"	3 1/2"

MIAMI-DADE COUNTY

SHEET 6 OF 9

PRODUCT REVISED as complying with the Florida Buiding Code

Acceptance No 09 - 0330.04

Expiration Dete 06/07/2014

F.B.C.(High Velocity Hurricane Zone)

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES *

* SEE NOTES ON SHEET 8 & 9 OF 9 FOR ANCHOR TYPES & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.



P.E. SEAL/SIGNATURE/DATE

@ 2009 TILTECO, INC. ILLECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. J6th. St., Ste. 305, VIRGINIA GARDENS, FI. 33166
Phone: (305)871-1530. Fox: (305)871-1531
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

(LVANIZI DRM PA	ED BERTHA ANEL		M.C.V. DRAWN BY:
EA	STERN	META	L SU	PPLY, IN	c.	02/04/09 DATE
	WES		ESTROADS BEACH, FL		Ī	09-013
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DRAWING No
1	OLD 05-073	2/4/09	3	-		SHEET 6 OF 0

MAXIMUM	1711	OUR DEV	5 00 SISTER		AXIMUM ANCI						······		APPLICABLE TO	
DESIGN LOAD W (p.s.f.)	TAPCONS/MAXI	BUILDEX -SET TAPCONS		ING SYSTEMS	PANELMATE		CTION PRODU	ICTS ETE PLUS	POWER FA	STENERS K-IN		POINTS	APPLICABLE TO SECTIONS & & ANY COMBINATION	MAXIMUM PANE
w (p.s.r.)	TO CONCRETE		TO CONCRETE		TO CONCRETE		TO CONCRETE	,	TO CONCRETE	,	TO CONCRETE	TO MASONRY	OF THEM	LENGIH L (I
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	1 (TOP)	
	12"	8*	12"	6 1/2"	12"	12"	12"	9"	12"	9"	12"	12"	1 (ВОТТОМ)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	12"	2 (TOP)	
	12"	8"	12"	6 1/2"	12"	12"	12"	9"	12"	9"	N/A	N/A	2 (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	3 (TOP)	
	12"	8*	12"	6 1/2"	12"	12"	12"	9"	12"	9"	N/A	N/A	3 (ВОТТОМ)	
-66.0, -76.0	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	4 (TOP)	6'-0" OR LE
	12"	8*	12"	6 1/2"	12"	12"	12"	9"	12"	9*	N/A	N/A	4 (BOTTOM)	1
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	5 (TOP)	1
	12"	5"	12"	4 1/2"	12"	9"	12"	6"	12"	6"	N/A	N/A	5 (ВОТТОМ)	1
	12"	N/A	11"	N/A	12"	N/A	N/A	N/A	12"	N/A	N/A	N/A	6 (TOP)	1
	11**	N/A	12"	N/A	12"	N/A	N/A	N/A	10"	N/A	N/A	N/A	6 (ВОТТОМ)	1
	9"	N/A	9 1/2"	N/A	10 1/2"	N/A	N/A	N/A	9"	N/A	N/A	N/A	7 (TOP/BOTTOM)	1
	N/A	N/A	N/A	N/A	12"	12"	12"	6"	12"	6*	12"	12"	8 (TOP/BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	1 (TOP)	
	12"	6"	12"	5"	12"	11"	12"	7 1/2"	12"	7"	12"	12"	1 (ВОТТОМ)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	12"	2 (TOP)	1
	12"	6 1/2"	12"	5"	12"	12"	12"	7 1/2"	12"	7*	N/A	N/A	2 (BOTTOM)	1
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	3 (TOP)	
	12"	6"	12"	5"	12"	11"	12"	7 1/2"	12"	7"	N/A	N/A	3 (BOTTOM)	
66.0, -76.0	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	4 (TOP)	>6'-0" TO 7'-
	12"	6"	12"	5"	12"	11"	12"	7 1/2"	12"	7*	N/A	N/A	4 (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	12*	N/A	N/A	N/A	5 (TOP)	
	10 1/2"	3 1/2"	7"	4"	12"	6"	12"	4"	10 1/2"	4*	N/A	N/A	5 (ВОТТОМ)	
	11 1/2"	N/A	11"	N/A	12"	N/A	N/A	N/A	10 1/2"	N/A	N/A	N/A	6 (TOP)	
	9"	N/A	7 1/2"	N/A	9 1/2"	N/A	N/A	N/A	8"	N/A	N/A	N/A	6 (ВОТТОМ)	
	7 1/2"	N/A	9 1/2"	N/A	8 1/2"	N/A	N/A	N/A	7"	N/A	N/A	N/A	7 (ТОР/ВОТТОМ)	
	N/A	N/A	N/A	N/A	12"	6"	12"	6"	12"	6"	12"	12"	в (ТОР/ВОТТОМ)	
	12"	N/A	11 1/2"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	1 (TOP)	
L	12"	5"	11 1/2"	4 1/2"	12"	9"	12"	6"	12"	6 1/2"	12"	12"	1 (ВОТТОМ)	
	12"	N/A	11 1/2"	N/A	12"	N/A	12"	N/A	12"	N/A	12"	12"	2 (TOP)	
L	12"	5"	11 1/2"	4 1/2"	12"	9*	12"	6"	12"	6 1/2"	N/A	N/A	2 (BOTTOM)	
	12"	N/A	11 1/2"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	3 (TOP)	
_	12"	5"	11 1/2"	4 1/2"	12"	9*	12"	6"	12"	6 1/2"	N/A	N/A	3 (ВОТТОМ)	
6.0, -70.0	12"	N/A	11 1/2"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	4 (TOP)	>7'-6" 10 8'-
	12"	5"	11 1/2"	4 1/2"	12"	9"	12"	6"	12"	6 1/2"	N/A	N/A	4 (BOTTOM)	
	12"	N/A	11 1/2"	N/A	12"	N/A	12"	N/A	12"	N/A	N/A	N/A	5 (TOP)	
	8"	N/A	5 1/2"	3"	10"	4 1/2"	10"	3"	8"	3"	N/A	N/A	5 (ВОТТОМ)	
	10"	N/A	10 1/2"	N/A	11"	N/A	N/A	N/A	9"	N/A	N/A	N/A	6 (TOP)	
L	8"	N/A	7"	N/A	8 1/2"	N/A	N/A	N/A	7"	N/A	N/A	N/A	6 (ВОТТОМ)	
	7"	N/A	8 1/2"	N/A	7 1/2"	N/A	N/A	N/A	6"	N/A	N/A	N/A	7 (ТОР/ВОТТОМ)	
	N/A	N/A	N/A	N/A	12"	6"	12"	6"	12"	6"	12"	12*	8 (TOP/BOTTOM)	1

** MINIMUM ANCHOR SPACING LISTED BELOW ARE AS PER MIN. EDGE DISTANCE SCHEDULE. FOR E.D. LESS SCHEDULE INDICATED, REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE AT ANCHORS LEGEND.

	FACTOR									
ACTUAL E. D.	TAPCON	CRETE-FLEX SS4 ∆	FEMALE PANELMATE	PANELMATE PLUS	CALK-IN	SOLID-SET				
	Min. spacing=3"	Min. spacing=3"	Min. spacing=3"	Min. spacing=3"	Min. spacing=2 1/2"	Min. spacing=3"				
1 1/2"	.35	.50	-	-	_	-				
2 1/2"	-	-	_	_	0.50	.63				
3"	1.00	1.00	_	1.00	0.63	_				
3 1/2"	_	-	1.00		1.00	1.00				

▲ REDUCTION FACTOR APPLICABLE FOR POURED CONCRETE ONLY.

E.D. = EDGE DISTANCE

** MINIMUM ANCH	IORS E.D.	SCHEDULE					
ANCHORS TYPE	MINIMUM EDGE DISTANCE (E.D.)						
ANCHONS TITE	CONCRETE	C. BLOCK					
1/4"ø TAPCON	3"	3"					
1/4"ø PANELMATE FEMALE ID	3"	3 1/2"					
1/4"ø PANELMATE PLUS	3"	3 1/2"					
1/4"# CALK-IN	3"	4"					
1/4"ø SOLID-SET	3 1/2"	3 1/2"					

MIAMI-DADE COUNTY

PRODUCT REVISED as complying with the Florida

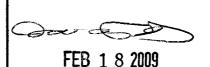
Buiding Code

Acceptance No 09 - 0330 . 04

F.B.C.(High Velocity Hurricane Zone)

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES *

> * SEE NOTES ON SHEET 8 & 9 OF 9 FOR ANCHOR TYPES & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

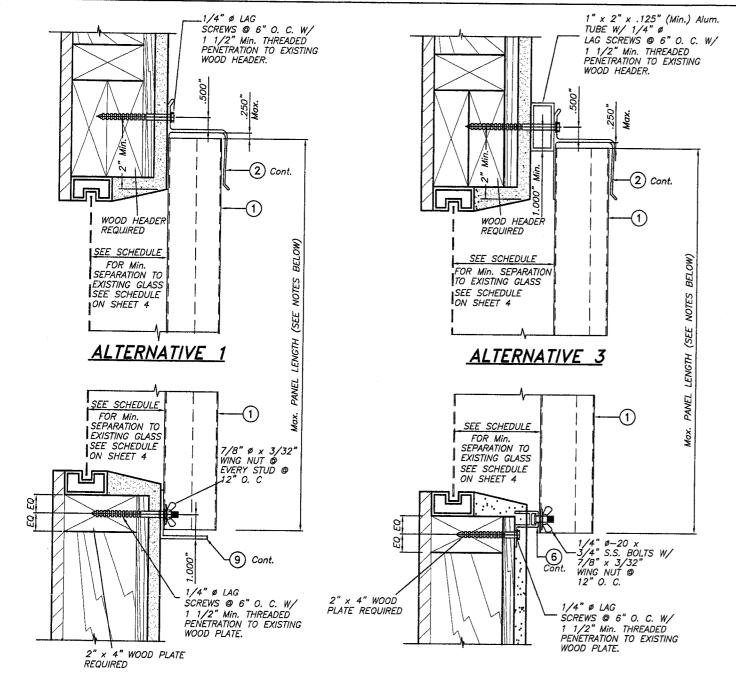


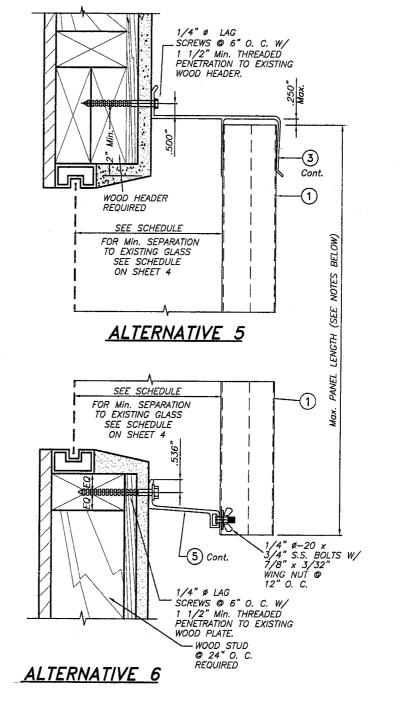
P.E. SEAL/SIGNATURE/DATE

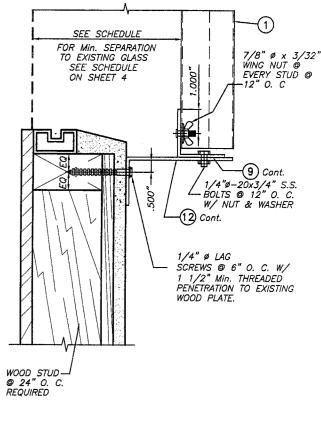
ILIECO INC. TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FI. 33166
Phone: (305)871-1530 Fax: (305)871-1531
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

@ 2009 TILTECO, INC.

0.030" THICK GALVANIZED BERTHA M.C.V. DRAWN BY: STEEL STORM PANEL 02/04/09 EASTERN METAL SUPPLY, INC. DATE 4268 WESTROADS DR. WEST PALM BEACH, FL 33407 09-013 DRAWING No SHEET 7 OF 9







ALTERNATIVE 7

ALTERNATIVE 2

ALTERNATIVE 4

WALL MOUNTING INSTALLATIONS SECTIONS A SCALE : 1/4" = 1"

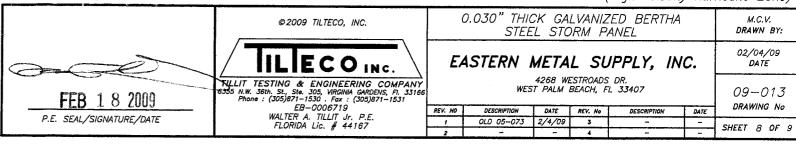
NOTE FOR COMBINATION OF SECTIONS:

WALL MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTES:

- 1. INSTALLATIONS ARE ONLY VALID FOR DESIGN WIND LOADS AND Max. PANEL LENGTHS AS PER SCHEDULE ON SHEET 4 OF 9
- 2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



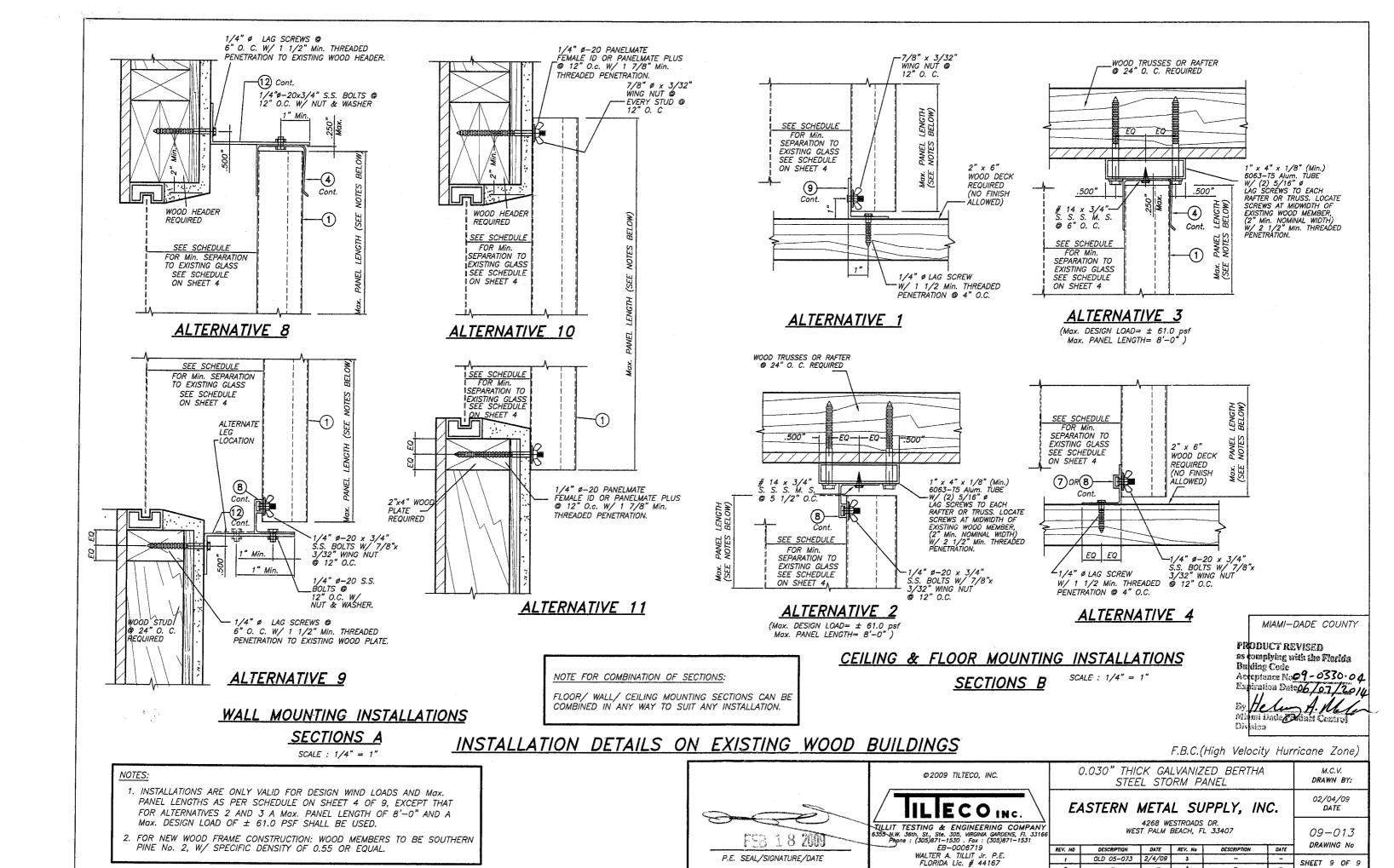
MIAMI-DADE COUNTY

PRODUCT REVISED as complying with the Florida **Building Code**

Acceptance No 09-0330. 04 Expiration Date 06/02/2010

Miami Dade Product Control

F.B.C.(High Velocity Hurricane Zone)



P.E. SEAL/SIGNATURE/DATE

OLD 05-073 2/4/09 3

SHEET 9 OF 9